

1 GGCCTAATCT GCTGCTTGCA AACAAAAAA CCACCGCTAC CAGCGGTGGT
51 TTGTTTGCCG GATCAAGAGC TACCAACTCT TTTTCCGAAG GAACTGGCTT
101 CAGCAGAGCG CAGATACCAA ATACTGTCCT TCTAGTGTAG CCGTAGTTAG
151 GCCACCACTT CAAGAACTCT GTAGCACCGC CTACATACCT CGCTCTGCTA
201 ATCCTGTTAC CAGTGGCTGC TGCCAGTGGC GATAAGTCGT GTCTTACCGG
251 GTTGGACTCA AGACGATAGT TACCGGATAA GGCGCAGCGG TCGGGCTGAA
301 CGGGGGGTTC GTGCACACAG CCCAGCTTGG AGCGAACGAC CTACACCGAA
351 CTGAGATACC TACAGCGTGA GCTATGAGAA AGCGCCACGC TTCCCGAAGG
401 GAGAAAGGCG GACAGGTATC CGGTAAGCGG CAGGGTCGGA ACAGGAGAGC
451 GCACGAGGGA GCTTCCAGGG GGAAACGCCT GGTATCTTTA TAGTCTGTG
501 GGGTTTCGCC ACCTCTGACT TGAGCGTCGA TTTTGTGAT GCTCGTCAGG
551 GGGGCGGAGC CTATGGAAAA ACGCCAGCAA CGCCGAATTA CCGCGGTCTT
601 TCTCAACGTA AACTTTTACA GCGGCGCGTC ATTTGATATG ATGCGCCCCG
651 CTTCCCGATA AGGGAGCAGG CCAGTAAAAG CATTACCCGT GGTGGGGTTC
701 CCGAGCGGCC AAAGGGAGCA GACTCTAAAT CTGCCGTCAT CGACTTCGAA
751 GGTTCGAATC CTTCCCCCAC CACCATCACT TTCAAAAGTC CGAAAGAATC
801 TGCTCCCTGC TTGTGTGTG GAGGTCGCTG AGTAGTGGC GAGTAAAT
851 TAAGCTACAA CAAGGCAAGG CTTGACCGAC AATTGCATGA AGAATCTGCT
901 TAGGGTTAGG CGTTTTGCGC TGCTTCGCGA TGTACGGGCC AGATATACGC
951 GTTGACATTG ATTATTGACT AGTTATTAAT AGTAATCAAT TACGGGGTCA
1001 TTAGTTCATA GCCCATATAT GGAGTTCGCG GTTACATAAC TTACGGTAA
1051 TGGCCCGCCT GGCTGACCGC CCAACGACCC CCGCCATTG ACGTCAATAA
1101 TGACGTATGT TCCCATAGTA ACGCCAATAG GGACTTTCCA TTGACGTCAA
1151 TGGGTGGACT ATTTACGGTA AACTGCCCAC TTGGCAGTAC ATCAAGTGTA
1201 TCATATGCCA AGTACGCCCC CTATTGACGT CAATGACGGT AAATGGCCCC
1251 CCTGGCATTG TGCCAGTAC ATGACCTTAT GGGACTTTCC TACTTGGCAG
1301 TACATCTACG TATTAGTCAT CGCTATTACC ATGGTGATGC GGTTTTGGCA
1351 GTACATCAAT GGGCGTGGAT AGCGGTTTGA CTCACGGGA TTTCCAAGTC
1401 TCCACCCCAT TGACGTCAAT GGGAGTTTGT TTTGGACCA AAATCAACGG
1451 GACTTTCCAA AATGTCGTAA CAACTCCGCC CCATTGACGC AAATGGGCGG
1501 AATTCCTGGG CGGGACTGGG GAGTGGCGAG CCCTCAGATG CTGCATATAA
1551 GCAGCTGCTT TTTGCCTGTA CTGGGTCTCT CTGGTTAGAC CAGATCTGAG
1601 CCTGGGAGCT CTCTGGCTAA CTAGAGAACC CACTGCTTAA GCCTCAATAA
1651 AGCTTCTAGA GATCCCTCGA CCTCGAGGGA TCTCCATAC CTACCAGTTC

FIG. 1-1

1701 TCGCCTGCA GGTGCGGCC GCGACTCTAG AGGATCTTTG TGAAGGAACC
 1751 TTACTTCTGT GGTGTGACAT AATTGGACAA ACTACCTACA GAGATTTAAA
 1801 GCTCTAAGGT AAATATAAAA TTTTAAAGTG TATAATGTGT TAACTACTG
 1851 ATTCTAATTG TTTGTGTATT TTAGATTCCA ACCTATGGAA CTGATGAATG
 1901 GGAGCAGTGG TGAATGCCT TTAATGAGGA AAACCTGTTT TGCTCAGAAG
 1951 AAATGCCATC TAGTGATGAT GAGGCTACTG CTGACTCTCA ACATTCTACT
 2001 CCTCCAAAAA AGAAGAGAAA GGTAGAAGAC CCCAAGGACT TTCCTTCAGA
 2051 ATTGCTAAGT TTTTGAGTC ATGCTGTGTT TAGTAATAGA ACTCTTGCTT
 2101 GCTTTGCTAT TTACACCACA AAGGAAAAAG CTGCACTGCT ATACAAGAAA
 2151 ATTATGGAAA AATATTCTGT AACCTTTATA AGTAGGCATA ACAGTTATAA
 2201 TCATAACATA CTGTTTTTTC TTAACCACA CAGGCATAGA GTGTCTGCTA
 2251 TTAATAACTA TGCTCAAAAA TTGTGTACCT TTAGCTTTTT AATTGTAA
 2301 GGGGTTAATA AGGAATATTT GATGTATAGT GCCTTGACTA GAGATCATAA
 2351 TCAGCCATAC CACATTTGTA GAGGTTTTAC TTGCTTTAAA AAACCTCCCA
 2401 CACCTCCCC TGAACCTGAA ACATAAAATG AATGCAATTG TTGTTGTTAA
 2451 CTTGTTTATT GCAGCTTATA ATGGTTACAA ATAAAGCAAT AGCATCACA
 2501 ATTTACAAA TAAAGCATTT TTTTCACTGC ATTCTAGTTG TGGTTTGTCC
 2551 AAACATCA ATGTATCTTA TCATGTCTGG ATCCTGTGGA ATGTGTGTCA
 2601 GTTAGGGTGT GGAAAGTCCC CAGGCTCCCC AGCAGGCAGA AGTATGCAAA
 2651 GCATGCATCT CAATTAGTCA GCAACCAGGT GTGGAAAGTC CCCAGGCTCC
 2701 CCAGCAGGCA GAAGTATGCA AAGCATGCAT CTCAATTAGT CAGCAACCAT
 2751 AGTCCCGCCC CTAACCTCCG CCATCCCGCC CCTAACCCTG CCCAGTTCCG
 2801 CCCATTCTCC GCCCCATGGC TGAATAATTT TTTTATTTA TGCAGAGGCC
 2851 GAGGCCGCCT CGGCCTCTGA GCTATTCCAG AAGTAGTGAG GAGGCTTTTT
 2901 TGGAGGCCTA GGCTTTTGCA AAAAGCTAAT TC

FIG. 1-2

05836544.047701

CCTAAGATGAGCTTTCCATGTAAATTTGTAGCCAGCTTCCTTCTGATTTTCAATGTTTCT (60)
 METSERPHEPROCYSLYSPHEVALALASERPHELEULEULEPHEASNVALSER
 TCCAAAGGTGCAGTCTCCAAAGAGATTACGAATGCCTTGAAACCTGGGTCCTTGGGT (120)
 SERLYSGLYALAVALSERLYSGLUILETHRASNALALEUGLUTHRTRPGLYALALEUGLY
 CAGGACATCAACTTGGACATTCCTAGTTTCAAATGAGTGATGATATTGACGATATAAAA (180)
 20 GLNASPILEASNLEUASPPILEPROSERPHEGLNMETSERASPPASPPILEASPPILELYS
 TGGGAAAAAÄCTTCAGACAAGAAAAAGATTGCACAATTCAGAAAAGAGAAAGAGACTTTC (240)
 40 TRPGLULYSTHRERASPLYSLYSILEALAGLNPHEARGLYSGLULYSGLUTHRPHE
 AAGGAAAAAGATACATATAAGCTATTTAAATGGAACCTGTGAAATTAAGCATCTGAAG (300)
 60 LYSGLULYSASPTHRTRYRLYSLEUPHELYSASNGLYTHRLEULYSILELYSHISLEULYS
 ---CHO---
 ACCGATGATCAGGATATCTACAAGGTATCAATATATGATACAAAAGGAAAAATGTGTTG (360)
 80 THRASPASPGLNASPILETYRLYSVALSERILETYRASPTHRLYSGLYLYSASNVALLEU
 GAAAAAATAITTTGATTTGAAGATTCAAGAGAGGGTCTCAAAACCAAAGATCTCCTGGACT (420)
 100 GLULYSILEPHEASPLEULYSILEGLNGLUARGVALSERLYSPROLYSILESERTRPTHR
 TGTATCAACACAACCTGACCTGTGAGGTAAATGAATGGAÄCTGACCCCGAATTAAACCTG (480)
 120 CYSILEASNTHRTHRLEUTHRCYSGLUVALMETASNGLYTHRASPPROGLULEUASNLEU
 ---CHO--- ---CHO---
 TATCAAGATGGGAAACATCTAAACTTTCTCAGAGGGTCATCACACAAGTGGACCACC (540)
 140 TYRGLNASPGLYLYSHISLEULYSLEUSERGLNARGVALILETHRHSLYSTRPTHRTHR
 AGCCTGAGTGCAAAATTCAAGTGCACAGCAGGGAACAAAGTCAGCAAGGAATCCAGTGT (600)
 160 SERLEUSERALALYSPELYSCYSTHRALAGLYASNLYSVALSERLYSGLUSERSERVAL
 GAGCCTGTCAGCTGTCCAGAGAAAGGTCTGGACATCTATCTCATCATTGGCATATGTGGÄ (660)
 180 GLUPROVALSERCYSPROGLULYSGLYLEUASPILETYRLEUILEILEGLYILECYSGLY
 GGAGGCAGCCTCTTGATGGTCTTTGTGGCÄCTGCTCGTTTTCTATATCACCAAAGGAAA (720)
 200 GLYGLYSERLEULEUMETVALPHEVALALALEULEUVALPHETYRILETHRLYSARGLYS
 -----TM-----
 AAACAGAGGAGTCGGAGAAATGATGAGGAGCTGGAGACAAGAGCCACAGAGTAGCTACT (780)
 220 LYSGLNARGSERARGARGASNÄSPGLUGLULEUGLUTHRARGALAHISARGVALALATHR
 GAAGAAAGGGGCCGGAAGCCÄCCAACAAATTCAGCTTCAÄCCCTCAGAAATCCAGCAACT (840)
 240 GLUGLUARGGLYARGLYSPROGLNGLNILEPROALASERTHRPROGLNASNPROALATHR
 TCCCAACATCTCTCCACCACCTGGTCATCGTTCCAGGCACCTAGTCATCGTCCCCCG (900)
 260 SERGLNHISPROPROPROPROGLYHISARGSERGLNALAPROSERHISARGPROPRO
 CCTCCTGGAÄACCGTGTTCAÄGCACCAGCCTCAGAAGAGGCTCCTGCTCÄGTGGGCACÄ (960)
 280 PROPROGLYHISARGVALGLNHISGLNPROGLNLYSARGPROPROALAPROSERGLYTHR

FIG. 2-1

300 CAAGTTCAC²CAGCAGAAAG³CCCGCCCT⁴CCCCAGACCT⁵CGAGTTCAGC⁶C⁷AAAACCTCC⁸ (1020)
 GLNVALHISGLNGLNLYSGLYPRO⁹PROLEU¹⁰PROARG¹¹PROARGVALGLN¹²PROLYSPRO¹³PRO
 320 CATGGGGCAGCAGAAA¹⁴ACT¹⁵CATTGTCCCCT¹⁶CCTCTAATTAAAAA¹⁷AGAT¹⁸AGAACTGTCT¹⁹ (1080)
 HISGLYALAALAGLUASN²⁰SERLEUSER²¹PRO²²SER²³SERASN²⁴END
 TTTTCAATA²⁵AAAAGCACTGT²⁶GGATTTCTG²⁷CCCTCCTGATGTGCATATCCGTACTTCCATG²⁸ (1140)
 AGGTGTTTTCTGTGTGCAGAACATTGTCA²⁹CTCCTGAGGCTGTGGGCCA³⁰CAGCCACCTCT³¹ (1200)
 GCATCTTCGAACTCAGCCA³²TGTGGTCAACATCTGGAGTTTTGGTCTCCTCAGAGAGCTC³³ (1260)
 CATCACACCAGTAAGGAGAAGCAATATAAGTGTGATTGCAAGAATGGTAGAGGACCGAGC³⁴ (1320)
 ACAGAAATCTTAGAGATTTCTTGTCCCCTCTCAGGTCATGTGTAGATGCCGATAAATCAAG³⁵ (1380)
 TGATTGGTGTGCCTGGGTCTCACTACAAGCAGCCTATCTGCTTAAGAGACTCTGGAGTTT³⁶ (1440)
 CTTATGTGCCCTGGTGGACACTTGGCCACCATCCTGTGAGTAAAAGTGA³⁷AATAAAAGCTT³⁸ (1500)
 TGAC (1504)

FIG. 2-2

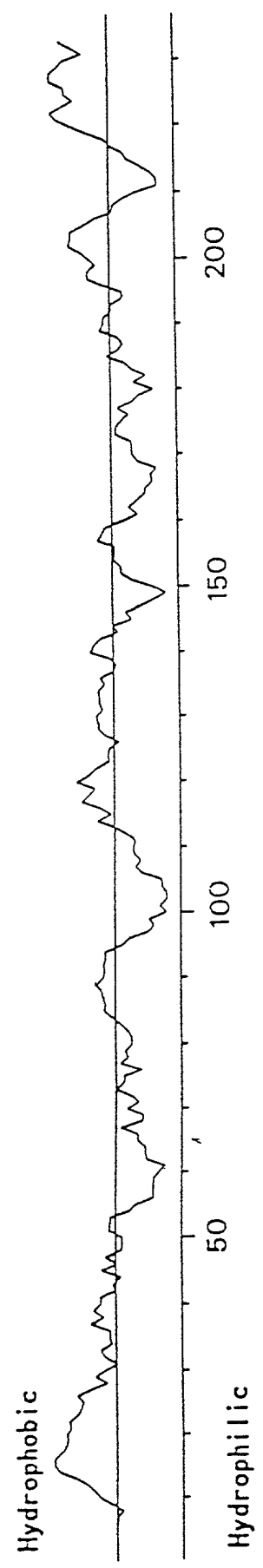
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1  G C C C G A G G C C A T G G T T G C T G G A G C G C G G G C C C T G G G G T C C T C A G C G T G C T C G C C T G C C A C T G C T T T G G T T C A T C 90
  MetValAlaGlySerAspAlaGlyArgAlaLeuGlyValLeuSerValValCysLeuLeuHisCysPheGlyPheIle 26
91  A G C T G T T T T C C C A A C A A T A T A T G T G T G T G T G A A T G T A A C T T T C C A T G T A C C A A G C A A T G T G C C T T T A A A A G A G G I C C I A T G G 180
27  SerCysPheSerGlnGlnIleTyrGlyValValTyrGlyAsnValThrPheHisValProSerAsnValProLeuLysGluValLeuTrp 56
    ---CH0---
181  A A A A A C A A A A G A T A A A G T T G C A G A A C T G G A A A A T T C T G A A T T C A G A G C T T T C I C A T C T T T T A A A A A T A G G T T T A T T I A G A C A C A C T G T G 270
57  LysLysGlnLysAspLysValAlaGluLeuGluAsnSerGluPheArgAlaPheSerSerPheLysAsnArgValTyrLeuAspThrVal 86
    ---CH0---
271  T C A G G T A G C C T C A C T A T C T A C A A C T T A A C A T C A T C A G A T G A G A T G A G T A T G A A A T G C C A A A T A T T A C T G A T A C C A T G A A G T T C 360
87  SerGlySerLeuThrIleTyrAsnLeuThrSerSerAspGluAspGluTyrGluMetGluSerProAsnIleThrAspThrMetLysPhe 116
    ---CH0---
361  T T T C T T T A T G T G C T T G A G T C T C T C C A T C T C C C A C A C T A A C T T G T G C A T T G A C T A A T G G A A G C A T T G A A G T C C A A T G C A T G A T A C C A G A G 450
117  PheLeuTyrValLeuGluSerLeuProSerProThrLeuThrCysAlaLeuThrAsnGlySerIleGluValGlnCysMetIleProGlu 146
    ---CH0---
451  C A T T A C A A C A G C C A T C G A G G A C T T A T A A T G T A C T C A T G G A T T G T C C I A T G G A G C A A T G T A A A C G T A A C T C A A C C A G T A T A T T T T A A G 540
147  HisTyrAsnSerHisArgGlyLeuIleMetTyrSerTrpAspCysProMetGluGlnCysLysArgAsnSerThrSerIleTyrPheLys 176
    ---CH0---
541  A T G C A A A A T G A T C T T C C A C A A A A A A T A C A G T G T A C T C T T A G C A A T C C A T T A T T A A T A C A A C A T C A T C A A T C A T T T T G A C A A C C T G T A T C 630
177  MetGluAsnAspLeuProGlnLysIleGlnCysThrLeuSerAsnProLeuPheAsnThrThrSerSerIleIleLeuThrThrCysIle 206
    ---CH0---
631  C C A A G C A G C G G T C A T T C A A G A C A C A G A T A T G C A C T T A T A C C C A T A C C A T T A G C A G T A A T T A C A A C A T G T A T T G T G C T G T A T A T G A A T G T T 720
207  ProSerSerGlyHisSerArgHisArgTyrAlaLeuIleProIleProLeuAlaValIleThrThrCysIleValIleLeuTyrMetAsnVal 236
    =====
721  C T T T A A T T G A G A A G A C A A T T T C T T C A T T T T T A G G T A T T C T G A A A T G T G A C A G A A A C C A G A C A G A C C A A C C A A C T C C A A T T G A T T G G T A A C A G 810
237  LeuEnd
    ===
811  A A G A T G A A G A C A C A C A G C A T A A C T A A A T T A T T T T A A A A C T A A A A G C C A T C T G A T T T C T C A T T 874

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FIG. 4A

FIG. 4B



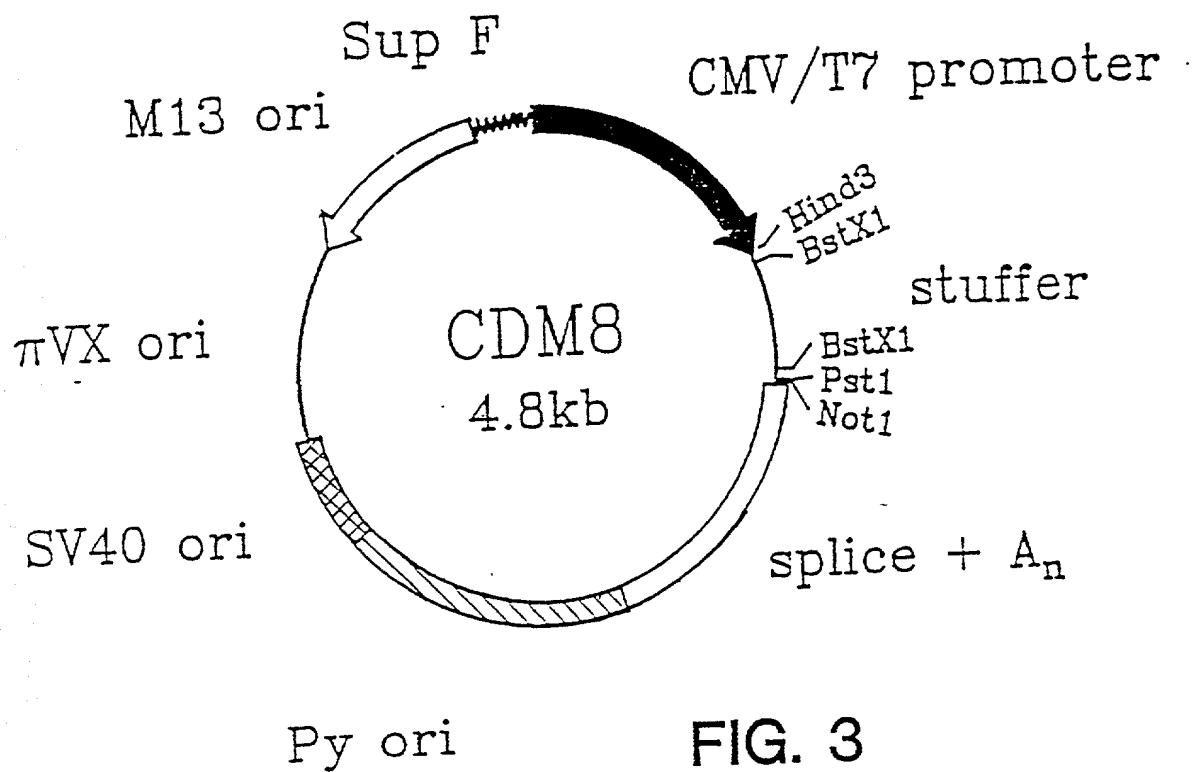


FIG. 3

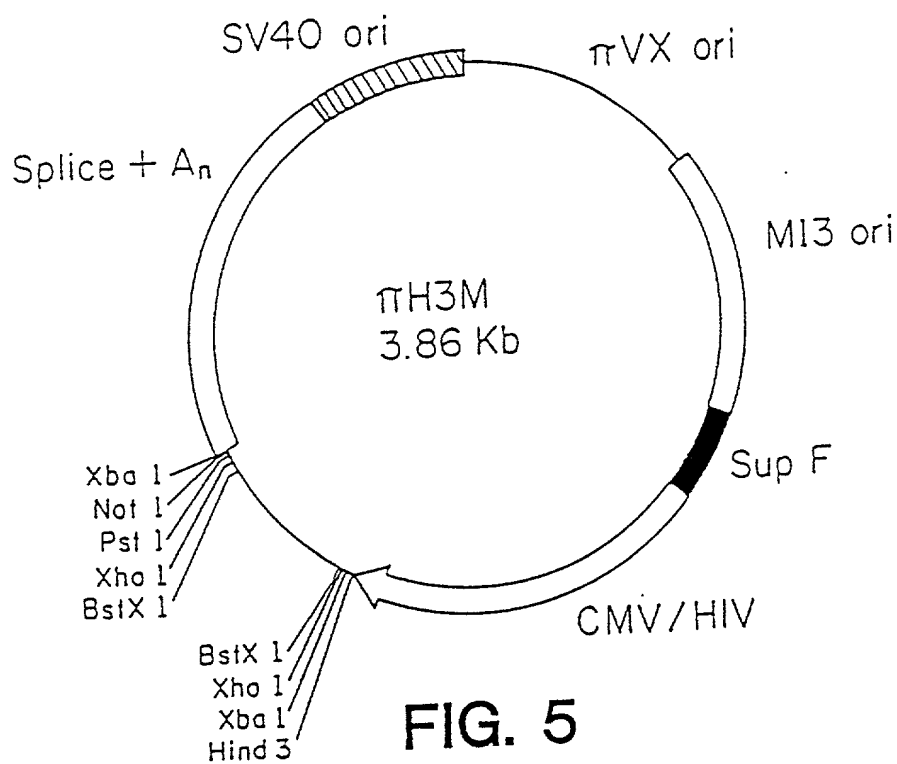


FIG. 5

1 GGCCTAATCT GCTGCTTGCA AACAAAAAA CCACCGCTAC CAGCGGTGGT
 51 TTGTTTGCCG GATCAAGAGC TACCAACTCT TTTTCCGAAG GTAAGTGGCT
 101 TCAGCAGAGC GCAGATACCA AATACTGTCC TTCTAGTGTA GCCGTAGTTA
 151 GGCCACCACT TCAAGAACTC TGTAGCACCG CCTACATACC TCGCTCTGCT
 201 AATCCTGTTA CCAGTGGCTG CTGCCAGTGG CGATAAGTCG TGTCTTACCG
 251 GGTGGACTC AAGACGATAG TTACCGGATA AGGCGCAGCG GTCGGGCTGA
 301 ACGGGGGGTT CGTGACACA GCCCAGCTTG GAGCGAACGA CCTACACCGA
 351 ACTGAGATAC CTACAGCGTG AGCATTGAGA AAGCGCCACG CTTCCCGAAG
 401 GGAGAAAGGC GGACAGGTAT CCGGTAAGCG GCAGGGTCGG AACAGGAGAG
 451 CGCAGGAGGG AGCTTCCAGG GGGAAACGCC TGGTATCTTT ATAGTCTGT
 501 CGGGTTTCGC CACCTCTGAC TTGAGCGTCG ATTTTGTGA TGCTCGTCAG
 551 GGGGGCGGAG CCTATGGAAA AACGCCAGCA ACGCAAGCTA GCTTCTAGCT
 601 AGAAATTGTA AACGTTAATA TTTTGTTAAA ATTCGCGTTA AATTTTTGTT
 651 AAATCAGCTC ATTTTTTAAC CAATAGGCCG AAATCGGCAA AATCCCTTAT
 701 AAATCAAAAG AATAGCCCGA GATAGGGTTG AGTGTGTTC CAGTTTGAA
 751 CAAGAGTCCA CTATTAAAGA ACGTGGACTC CAACGTCAA GGGCGAAAA
 801 CCGTCTATCA GGGCGATGGC CGCCCACTAC GTGAACCATC ACCCAAATCA
 851 AGTTTTTTGG GGTGAGGTG CCGTAAAGCA CTAAATCGGA ACCCTAAAGG
 901 GAGCCCCCGA TTTAGAGCTT GACGGGGAAA GCCGGCGAAC GTGGCGAGAA
 951 AGGAAGGGAA GAAAGCGAAA GGAGCGGGCG CTAGGGCGCT GGCAAGTGTA
 1001 GCGGTCACGC TGGCGTAAC CACCACACC GCCGCGCTTA ATGCGCGCT
 1051 ACAGGGCGCG TACTATGGTT GCTTTGACGA GCACGTATAA CGTGCTTTCC

FIG. 6-1

1101 TCGTTGGAAT CAGAGCGGGA GCTAAACAGG AGGCCGATTA AAGGGATTTT
1151 AGACAGGAAC GGTACGCCAG CTGGATCACC GCGGTCTTTC TCAACGTAAC
1201 ACTTTACAGC GGCGCGTCAT TTGATATGAT GCGCCCCGCT TCCCGATAAG
1251 GGAGCAGGCC AGTAAAAGCA TTACCCGTGG TGGGGTCCCC GAGCGGCCAA
1301 AGGGAGCAGA CTCTAAATCT GCCGTCATCG ACTTCGAAGG TTCGAATCCT
1351 TCCCCACCA CCATCACTTT CAAAAGTCCG AAAGAATCTG CTCCCTGCTT
1401 GTGTGTTGGA GGTCGCTGAG TAGTGCGCGA GTAAAATTTA AGCTACAACA
1451 AGGCAAGGCT TGACCGACAA TTGCATGAAG AATCTGCTTA GGGTTAGGCG
1501 TTTTGGCTG CTTCGCGATG TACGGGCCAG ATATACGCGT TGACATTGAT
1551 TATTGACTAG TTATTAATAG TAATCAATTA CGGGGTCATT AGTTCATAGC
1601 CCATATATGG AGTTCCGCGT TACATAACTT ACGGTAAATG GCCCCCCTGG
1651 CTGACCGCCC AACGACCCCC GCCCATTGAC GTCAATAATG ACGTATGTTT
1701 CCATAGTAAC GCCAATAGGG ACTTTCCATT GACGTCAATG GGTGGACTAT
1751 TTACGGTAAA CTGCCCCACTT GGCAGTACAT CAAGTGATC ATATGCCAAG
1801 TACGCCCCCT ATTGACGTCA ATGACGGTAA ATGGCCCGCC TGGCATTATG
1851 CCCAGTACAT GACCTTATGG GACTTTCCTA CTTGGCAGTA CATCTACGTA
1901 TTAGTCATCG CTATTACCAT GGTGATGCGG TTTTGGCAGT ACATCAATGG
1951 GCGTGGATAG CGGTTTGA CTACGGGGATT TCCAAGTCTC CACCCCATTG
2001 ACGTCAATGG GAGTTTGT TTGGCACCAA ATCAACGGGA CTTTCCAAAA
2051 TGTGTAACA ACTCCGCCCC ATTGACGCAA ATGGGCGGAA TTCCTGGGCG
2101 GGA CTGGGGA GTGGCGAGCC CTCAGATGCT GCATATAAGC AGCTGCTTTT
2151 TGCCTGTACT GGGTCTCTCT GGTTAGACCA GATCTGAGCC TGGGAGCTCT
2201 CTGGCTAACT AGAGAACCCA CTGCTTAAGC CTCAATAAAG CTTCTAGAGA
2251 TCCCTCGACC TCGAGATCCA TTGTGCTGGC GCGGATTCTT TATCACTGAT

FIG. 6-2

2301 AAGTTGGTGG ACATATTATG TTTATCAGTG ATAAAGTGTC AAGCATGACA
2351 AAGTTGCAGC CGAATACAGT GATCCGTGCC GCCCTAGACC TGTGAACGA
2401 GGTGGCGTA GACGGTCTGA CGACACGCAA ACTGGCGGAA CGGTTGGGG
2451 TTCAGCAGCC GGCCTTTTAC TGGCACTTCA GGAACAAGCG GGCCTGCTC
2501 GACGCACTGG CCGAAGCCAT GCTGGCGGAG AATCATAGCA CTTCGGTGCC
2551 GAGAGCCGAC GACGACTGGC GCTCATTCT GACTGGGAAT GCGCGCAGCT
2601 TCAGGCAGGC GCTGCTCGCC TACCGCCAGC ACAATGGATC TCGAGGGATC
2651 TTCCATACCT ACCAGTTCTG CGCCTGCAGG TCGCGGCCGC GACTCTAGAG
2701 GATCTTTGTG AAGGAACCTT ACTTCTGTGG TGTGACATAA TTGGACAAAC
2751 TACCTACAGA GATTTAAAGC TCTAAGGTAA ATATAAAATT TTTAAGTGTA
2801 TAATGTGTTA AACTACTGAT TCTAATTGTT TGTGTATTTT AGATTCCAAC
2851 CTATGGAACCT-GATGAATGGG AGCAGTGGTG GAATGCCTTT AATGAGGAAA
2901 ACCTGTTTTG CTCAGAAGAA ATGCCATCTA GTGATGATGA GGCTACTGCT
2951 GACTCTCAAC ATTCTACTCC TCCAAAAAAG AAGAGAAAGG TAGAAGACCC
3001 CAAGGACTTT CCTTCAGAAT TGCTAAGTTT TTTGAGTCAT GCTGTGTTTA
3051 GTAATAGAAC TCTTGCTTGC TTTGCTATTT ACACCACAAA GGAAAAAGCT
3101 GCACTGCTAT ACAAGAAAAT TATGGAAAAA TATTCTGTAA CCTTTATAAG
3151 TAGGCATAAC AGTTATAATC ATAACATACT GTTTTTTCTT ACTCCACACA
3201 GGCATAGAGT GTCTGCTATT AATAACTATG CTCAAAAATT GTGTACCTTT
3251 AGCTTTTTTAA TTTGTAAAGG GGTAAATAAG GAATATTTGA TGTATAGTGC
3301 CTTGACTAGA GATCATAATC AGCCATACCA CATTTGTAGA GGTTTTACTT
3351 GCTTTAAAAA ACCTCCCACA CCTCCCCCTG AACCTGAAAC ATAAAATGAA
3401 TGCAATTGTT GTTGTTAACT TGTTTATTGC AGCTTATAAT GGTTACAAAT
3451 AAAGCAATAG CATCACAAAT TTCACAAATA AAGCATTTTT TCACTGCAT

FIG. 6-3

3501 TCTAGTTGTG GTTTGTCCAA ACTCATCAAT GTATCTTATC ATGTCTGGAT
3551 CCTGTGGAAT GTGTGTCAGT TAGGGTGTGG AAAGTCCCCA GGCTCCCCAG
3601 CAGGCAGAAG TATGCAAAGC ATGCATCTCA ATTAGTCAGC AACCAGGTGT
3651 GGAAAGTCCC CAGGCTCCCC AGCAGGCAGA AGTATGCAAA GCATGCATCT
3701 CAATTAGTCA GCAACCATAG TCCCGCCCCT AACTCCGCCC ATCCCGCCCC
3751 TAACTCCGCC CAGTTCCGCC CATTCTCCGC CCCATGGCTG ACTAATTTTT
3801 TTTATTTATG CAGAGGCCGA GGCCGCCTCG GCCTCTGAGC TATTCCAGAA
3851 GTAGTGAGGA GGCTTTTTTG GAGGCCTAGG CTTTIGCAAA AAGCTAATTC

FIG. 6-4

0963644.04595960

AGACTCTCAGGCCTTGGCAGGTGCGTCTTTCAGTTCCTCCCTCACACTTCGGGTTCTCGGG (60)

GAGGAGGGGCTGGAACCTAGCCCATCGTCAGGACAAAGATGCTCAGGCTGCTCTTGGCT (120)

METLEUARGLEULEULEUALA
-18
CTCAACTATTCCCTTCAATTCAAGTAACAGGAAACAAGATTTTGGTGAAGCAGTCGCC (180)

LEUASNLEUPHEPROSERILEGLNVALTHRGLYASNLYSILELEUVALLYSGLNSEPRO
+1
10 ATGCTTGTAGCGTACGACAATGCGGTCAACCTTAGCTGCAAGTATTCCTACAATCTCTT (240)

METLEUVALALATYRASPASNALAVALASNLEUSERCYSLYSTYRSERTYRASNLEUPHE
---CHO---
30 TCAAGGGAGTTCCGGGCATCCCTTCAAAAGGACTGGATAGTGCTGTGGAACTCTGTGT (300)

SERARGGLUPHEARGALASERLEUHISLYSGLYLEUASPSEALAVALLUVALCYSVAL
GTATATGGGAATTACTCCCAGCAGCTTCAGGTTTACTCAAAAACGGGGTTCAACTGTGAT (360)

50 VALTYRGLYASNTYRSEGLNGLNLEUGLNVALTYRSELYSTHRGLYPHEASNLYSASP
---CHO---
70 GGGAAATTGGGCAATGAATCAGTGACATTCTACCTCCAGAAATTTGTATGTTAACCAAACA (420)

GLYLYSLEUGLYASNGLUSERVALTHRPHELYRLEUGLNASNLEUTYRVALASNGLNTHR
---CHO---
90 GATATTTACTTCTGCAAAATTGAAGTTATGTATCCTCCTCCTACCTAGACAATGAGAAG (480)

ASPILETYRPHCYSLYSILEGLUVALMETTYRPROPROTYRLEUASPASNGLULYS
AGCAATGGAACCATTATCCATGTGAAAGGGAAACACCTTTGTCCAAGTCCCCTATTTCCC (540)

110 SERASNGLYTHRILEILEHISVALLYSGLYLYSHISLEUCYSPROSERPROLEUPHEPRO
---CHO---
130 GGACCTTCTAAGCCCTTTTGGGTGCTGGTGGTGGTGGTGGAGTCTGGCTTGCTATAGC (600)

GLYPROSERLYSPROPHETRPVALLEUVALVALVALGLYGLYVALLEUALACYSTYRSE
-----TM-----
150 TTGCTAGTAACAGTGGCCTTTATTATTTCTGGGTGAGGAGTAAGAGGAGCAGGCTCCTG (660)

LEULEUVALTHRVALALAPHEILEILEPHETRPVALARGSERLYSARGSERARGLEULEU
CACAGTGACTACATGAACATGACTCCCCGCCGCCCGGGCCACCCGCAAGCATTACCA (720)

170 HISSERASPTYRMETASNMETTHRPROARGARGPROGLYPROTHRARGLYSHISTYRGLN
CCCTATGCCCCACCACGCGACTTCGCAGCCTATCGCTCCTGACACGGACGCCTATCCAGA (780)

190 PROTYRALAPROPROARGASPPHEALAALATYRARGSEREND
202
AGCCAGCCGGCTGGCAGCCCCCATCTGCTCAATATCACTGCTCTGGATAAGAAATGACCG (840)

CCATCTCCAGCCGGCCACCTCAGCCCCTGTGGGCCACCAATGCCAATTTTCTCGAGTG (900)

ACTAGACCAATATCAAGATCATTTTGAGACTCTGAAATGAAGTAAAGAGATTCTCTGT (960)

GACAGGCCAAGTCTTACAGTGCCATGGCCACATTCCAACCTACCATGTACTTAGTGACT (1020)

TGACTGAGAAGTTAGGGTAGAAAACAAAAAGGGAGTGGAATCTGGGAGCCTCTCCCTTT (1080)

FIG. 7-1

CTCACTCACCTGCACATCTCAGTCAAGCAAAGTGTGGTATCCACAGACATTTTAGTTGCA (1140)
GAAGAAAGGCTAGGAAATCATTCTTTTGGTTAAATGGGTGTTAATCTTTTGGTTAGTG (1200)
GGTTAAACGGGTAAGTTAGTAGGGGGAGGGATAGGAAGACATATTTAAAAACCATTÀ (1260)
AAACACTGTCTCCCACTCATGAAATGAGGCACGTAGTTCCTATTTAATGCTGTTTTCTT (1320)
TAGTTTAGAAATACATAGACATTGTCTTTTATGAATTCTGATCATATTTAGTCATTTTGÀ (1380)
CCAAATGAGGGATTTGGTCÀAATGAGGGAÏTCCCTCAAAGCAATATCAGGTAAACCAAGT (1440)
TGCTTTCCTCACTCCCTGTCATGAGACTTCAGTGTTAATGTTACAATAÏACTTTCGAAA (1500)
GAATAAAATAGTTC (1514)

FIG. 7-2

TAGACCCAGAGAGGCTCAGCTGCACTCGCCCGGCTGGGAGAGCTGGGTGTGGGGAACATG (60)
MET

GCCGGGCTCCGAGGCTCCTGCTGCTGCCCTGCTTCTGGCGCTGGCTCGCGGCTGCCT (120)
ALAGLYPROPRDARGLEULEULEULEUPROLEULEULEUALALEUALAARGGLYLEUPRO

GGGGCCCTGGCTGCCAAGGTAAGAGCTTCCCAGGCTCTCCATGGCCACAGCTCCGGAGC (180)
GLYALALEUALAALAGLN /

TCTCCCTGCCCATGAGCTCAGAGCCCCAGTCTGAGCCACAGCACAGCCCCAGGAAGC (240)

GGGTGGGTGCTGAGCGGCTCCAGTGTCTGAGGACTCATTTAAGAGAAAGGAAAAGGT (300)

GGACCCGGTGGGAGTGGCCGGGGCTGTCCAGGCAGGGCCGCTGCTTGGGAGGAAGAAG (360)

CCCACAGTCTCGGAACACGAGGACAGCACCTCCCCAACACCACAGCCGGTGCCAGATC (420)

TGCTCCATGCCCCGTAAGGACCGTGTCTTGGCGACATGTCAGCCCTGGGCTGTCTCAG (480)

GGCCCCACCATCCCCACCACTGTCCCCTGCAGGGAGGACATTCTCTGTCTTCTGGCCAG (540)
/

ACTGATGGTGACAGCCAGGTCCTCCCAGAGGTGCAAGCTCTCCCACTGCACGACTGT (600)
GLUVALGLNGLNSERPROHISCYSTHRTHRVA

CCCCGTGGGAGCCTCCGTCAACATCACCTGCTCCACCAGCGGGGGCTGCGTGGGATCTA (660)
LPROVALGLYALASERVALASNILETHRCYSSERTHRSERGLYGLYLEUARGGLYLETY
---CHO---

CCTGAGGCACTCGGGCCACAGCCCAAGACATCATTTACTACGAGGACGGGTGGTGCC (720)
RLEUARGGLNLEUGLYPROGLNPROGLNASPILEILETYRTYRGLUASPLYVALVALPR

CACTACGGAACAGACGGTTCGGGGCCGATCGACTTCTCAGGGTCCCAGGACAACCTGAC (780)
OThrThrasPARGARGPHEARGGLYARGILEASPPHESERGLYSERGLNASPASNLEUTH
---CHO---

TATCACCATGACCGCCTGCAGCTGTGGACACTGGCACCTACACCTGCCAGGCCATCAC (840)
RILETHRMETHISARGLEUGLNLEUSERASPTHRGLYTHRTYRTHRCYSLNALAILETH

GGAGGTCAATGTCTACGGCTCCGGCACCTGGTCTGGTGACAGAGGAACAGTCCCAAGG (900)
RGLUVALASNVALTYRGLYSERGLYTHRLEUVALLEUVALTHRGLUGLUGLNSERGLNGL

ATGGCACAGATGCTCGGACGCCCCACCAAGGGCTCTGCCCTCCCTGCCCCACCGACAGG (960)
YTRPHISARGCYSSERASPALAProProARGALASERALEUProALAProProThrgl

CTCCGCCCTCCCTGACCCGACAGACAGCCTCTGCCCTCCCTGACCCGCCAGCAGCCTCTGC (1020)
YSERALEULEUProASPProGLNThRALASERALEUProASPProProALAALASERAL

CCTCCCTGCGGCCCTGGCGGTGATCTCTCTCTCCTCGGGCTGGGCCTGGGGTGGCGTG (1080)
ALEUProALAALALEUALAVALILESERPHEULEUGLYLEUGLYLEUGLYVALALACY
-----TM-----*

FIG. 8-1

TGTGCTGGCGAGGACACAGATAAAGAACTGTGCTCGTGGCGGGATAAGAATTCGGCGGC (1140)
 SVALLEUALAARGTHRGLNILELYSLYSLEUCYSSERTRPARGASPLYSASN SERALAAL

 ATGTGTGGTGTACGAGGACATGTCCGACAGCCGCTGCAACACGCTGTCTCCCCCAACCA (1200)
 ACYSVALVALTYRGLUASPMETSERHIS SERARGCYSASNTHRLEUSERSERPROASNGL
 GTACCAGTGACCCAGTGGGCCCCCTGCACGTCCCGCCTGTGGTCCCCCAGCACCTTCCCT (1260)
 NTYRGLNEND
 GCCCCACCATGCCCCCACCCCTGCCACACCCCTCACCTGCTGTCTCCACGGCTGCA (1320)
 CAGAGTTTGAAAGGGCCAGCEGTGCCAGCTCCAAGCAGACACACAGGCAGTGGCCAGGC (1380)
 CCCACGGTGCTTCTCAGTGGACAATGATGCCTCCTCCGGGAAGCCTTCCCTGCCAGCCC (1440)
 ACGCCGCCACCGGGAGGAAGCCTGACTGTCTTTGGCTGCATCTCCCGACCATGGCCAAG (1500)
 GAGGGCTTTTCTGTGGGATGGGCTGGCAACGGGCCCTCTCCTGTCAGTGCCGGCCACC (1560)
 CACCAGCAGGCCCCCAACCCCCAGGCAGCCCGGCAGAGGACGGGAGGAGACCAGTCCCCC (1620)
 ACCCAGCCGTACCAGAAATAAAGGCTTCTGTGCTTCAAAAACAAAAA (1665)

FIG. 8-2

CCCAAATGTCTCAGAATGTATGTCCCAGAAACCTGTGGCTGCTTCAACCATTGACAGTTT (60)
 METSERGLNASNVALCYSPROARGASNLEUTRPLEULEUGLNPROLEUTHRVALL
 -29
 TGCTGCTGCTGGCTTCTGCAGACAGTCAAGCTGCAGTCCCCAAAGGCTGTGCTGAAAC (120)
 EULEULEULEUALASERALAASP SERGLNALAALAALAPROPROLYSALAVALLEULYSL
 -1 +1
 10 TTGAGCCCCGTGGATCAACGTGCTCCAGGAGGACTCTGTGACTCTGACATGCCAGGGGG (180)
 EUGLUPROPROTRP ILEASNVALLEUGLNGLUASPSERVALTHRLEUTHRCYSLNGLYA
 *
 30 CTGCGAGCCCTGAGAGCGACTCCATTGAGTGGTTCCACAATGGGAATCTCATTCCCACC (240)
 LAARGSERPROGLUSERASPSERILEGLNTRPPHEHISASNGLYASNLEUILEPROTHR
 *
 50 ACACGCAGCCAGCTACAGGTTCAAGGCCAACAACATGACAGCGGGGAGTACACGTGCC (300)
 ISTHRLNPROSERTYRARGPHELYSALAASNASNASNASPSERGLYGLUTYRTHRCYSG
 ---CHO---
 70 AGACTGGCCAGACCAGCCTCAGCGACCCTGTGCATCTGACTGTGCTTTCCGAATGGCTGG (360)
 LNTHRGLYGLNTHRSERLEUSERASPPROVALHISLEUTHRVALLEUSERGLUTRPLEUV
 *
 90 TGCTCCAGACCCCTCACCTGGAGTTCCAGGAGGGAGAAAACCATCATGCTGAGGTGCCACA (420)
 ALLEUGLNTHRPROHISLEUGLUPHEGLNGLUGLYGLUTHRILEMETLEUARGCYSHISS
 *
 110 GCTGGAAGGACAAGCCTCTGGTCAAGGTCAATTCTTCCAGAAATGGAAAATCCCAGAAAT (480)
 ETRPLYSASPLYSPROLEUVALLYSVALTHRPHEPHEGLNASNGLYLYSSERGLNLISP
 *
 130 TCTCCCGTTTGGATCCCACCTTCTCCATCCACAAGCAAACCACAGTCAAGTGGTGATT (540)
 HESERARGLEUASPPROTHRPHESERILEPROGLNALAASNHISSEHISSEHISSEGLYASPT
 ---CHO---
 150 ACCACTGCAAGGAAACATAGGCTACAGCTGTTCTCATCAAGCCTGTGACCATCACTG (600)
 YRHISCYSTHRLYASNILEGLYTYRTHRLEUPHESERLISPROVALTHRIETHRV
 *
 170 TCCAAGTGCCAGCATGGGAGCTCTTCAACATGGGATCATTGTGGCTGTGGTCATTG (660)
 ALGLNVALPROSERMETGLYSERSESRSESRPROMETGLYILEILEVALALAVALEA

 190 CGACTGCTGTAGCAGCCATTGTTGCTGCTGTAGTGGCCTTGATCTACTGCAGGAAAAAGC (720)
 LATHRALAVALALAALAILEVALALAALAVALVALALAILEUILETYRCYSARGLYSLYSA

 210 GGATTTGAGCAATTCCACTGATCCTGTGAAGGCTGCCAATTTGAGCCACCTGGACGTC (780)
 RGILESERALAASNSESRTHRASPPROVALLYSALAALAGLNPHGLUPROPROGLYARGG

 230 AAATGATTGCCATCAGAAAGAGACAACTTGAAGAAACCAACAATGACTATGAAACAGCTG (840)
 LNMETILEALAILEARGLYSARGGLNLEUGLUGLUTHRASNASNASPTYRGLUTHRALAA

 250 ACGGCGGCTACATGACTCTGAACCCAGGGCACCTACTGACGATGATAAAAACATCTACC (900)
 SPGLYGLYTYRMETTHRLEUASNPROARGALAPROTHRASPPASPLYSASNILETYRL

FIG. 9-1

0986544-04301

270 TGA CTCTT CCTCCCAACGACCATGTCAACAGTAATAACTAAAGAGTAACGTTATGCCATG (960)
EUTHRELEUPROPROASNASPHISVALASN SERASNENEND
282
TGGTCATACTCTCAGCTTGCTGAGTGGATGACAAAAAGAGGGGAATTGTTAAAGGAAAAT (1020)
TTAAATGGAGACTGGAAAAATCCTGAGCAACAAAAACCACTGGCCCTTAGAAATAGCTT (1080)
TAACTTTGCTTAACTACAACACAAGCAAACTTCACGGGGTCATACTACATACAAGCA (1140)
TAAGCAAACTTAACTTGGATCATTTCTGGTAAATGCTTATGTTAGAAAAGACAACCC (1200)
CAGCCAATCACAAGCAGCTACTAACATAAATTAGGTGACTAGGGACTTTCTAAGAAGA (1260)
TACCTACCCCAAAAAACAATTATGTAATTGAAAACCAACCGATTGCCTTTATTTTGCTT (1320)
CCACATTTTCCAATAAATACTTGCTGTGACATTTTGCCTGGAACAATAAATTCAAT (1380)
GAATTGCGCTCAGATTTTCTTTAACAATCTTTTTTTTTTTTACAGAGTCTCAATCTG (1440)
TTACCCAGGCTGGAGTGCAGTGGTCTATCTTGGTCACTGCAAACCCGCTCCCAGGT (1500)
TAAGCGATTCTCATGCCTCAGCTCCCAGTAGCTGGGATTAGAGGCATGTGCCATCATACT (1560)
CCAGCTAATTTTGTATTTTATTTTTTTTTTTTAGTAGAGACAGGGTTTCGCAATGTT (1620)
GGCCAGGCCGATCTCGAACTTCTGGCCTCTAGCGATCTGCCCGCTCGGCTCCCAAAGT (1680)
GCTGGGATGACCAGCATCAGCCCCAATGTCCAGCCTCTTTAACATCTTCTTCTATGCC (1740)
CTCTCTGTGGATCCCTACTGCTGGTTTCTGCCTTCTCATGCTGAGAACAAAATCACCTA (1800)
TCACTGCTTATGCAGTCGGAAGCTCCAGAGAACAAGAGGCCAATTAACAGAACACAA (1860)
TTAAGTCTCATTGTTTTGCCTTGGGATTGAGAAGAGAATTAGAGAGGTGAGGATCTGG (1920)
TATTTCTGGACTAAATTCCTTGGGGAAGACGAAGGGATGCTGCAGTTCCAAAAGAGA (1980)
AGGACTCTTCAGAGTCATCTACCTGAGTCCCAAAGCTCCTGTCTGAAAGCCACAGAC (2040)
AATATGGTCCCAAATGACTGACTGCACCTTCTGTGCCTCAGCCGTTCTTGACATCAAGAA (2100)
TCTTCTGTTCCACATCCACACAGCCAATAACAATTAGTCAAACCACTGTTATTAACAGATG (2160)
TAGCAACATGAGAAACGCTTATGTTACAGGTACATGAGAGCAATCATGTAAGTCTATAAT (2220)
GACTTCAGAAATGTTAAAATAGACTAACCTCTAACAACAATTAAGTGAATTGTTCAA (2280)
GGTGAAAAA (2290)

FIG. 9-2

```

1  AAAGACAAACTGCACCCACTGAACTCCGCAGCTAGCATCCAAATCAGCCCTTGAGATTTGAGGCTTGGAGACTCAGGAGTTTGAGAGAC
91  AAAATGACAACACCCAGAAATTACAGTAAATGGGACTTTCCTGGCAGAGCCCAATGAAAGGCCCTATTGCTATGCAATCTGGTCCAAACCA
1  MetThrThrProArgAsnSerValAsnGlyThrPheProAlaGluProMetLysGlyProIleAlaMetGlnSerGlyProLysPro
    ---CHO---
181 CTCTTCAGGAGGATGCTTCACTGGTGGGCCCCACGCCAAAGCTTCTTCATGAGGGAATCTAAGACTTTGGGGGCTGTCCAGATTATGAAT
30  LeuPheArgArgMetSerSerLeuValGlyProThrGlnSerPhePheMetArgGluSerLysThrLeuGlyAlaValGlnIleMetAsn
    =====
271 GGGCTCTTCCACATTGCCCTGGGGGTCTTCTGATGATCCAGCAGGGAICTATGCACCCCATCTGTGTGACTGTGTGGTACCCCTCTCTGG
60  GlyLeuPheHisIleAlaLeuGlyGlyLeuLeuMetIleProAlaGlyIleTyrAlaProIleCysValThrValTrpTyrProLeuTrp
    =====
361 GGAGGCATTATGTATATTTCGGGATCCTCTGGCAGCAACGGAGAACTCCAGGAAGTGTTTGGTCAAAGGAAATAATGATAATG
90  GlyGlyIleMetTyrIleIleSerGlySerLeuLeuAlaAlaThrGluLysAsnSerArgLysCysLeuValLysGlyLysMetIleMet
    =====
451 AATTCATTGAGCCTCTTTGCTGCCATTTCTGGAAATGATTCTTTCAATCATGGACATACTTAATAATTTCCCATTTTAAAAATG
120  AsnSerLeuSerLeuPheAlaAlaIleSerGlyMetIleLeuSerIleMetAspIleLeuAsnIleLysIleSerHisPheLeuLysMet
    =====
641 GAGAGTCTGAATTTTATTAGAGCTCACACACCATATATTAACATATACAACACTGTGAACCAAGCTAATCCCTCTGAGAAATACTCCCATCT
150  GluSerLeuAsnPheIleArgAlaHisThrProTyrIleAsnIleTyrAsnCysGluProAlaAsnProSerGluLysAsnSerProSer
    =====
631 ACCCAATACTGTTACAGCATACAATCTCTGTTCTTGGGCATTTTGTGAGTGATGCTGATCTTTGCCCTTCTTCCAGGAACCTTGTAATAGCT
180  ThrGlnTyrCysTyrSerIleGlnSerLeuPheLeuGlyIleLeuSerValMetLeuIlePheAlaPhePheGlnGluLeuValIleAla
    =====

```

FIG. 10A-1

721 GGCATCGTTGAGAAATGGAAGAAGCGTGCTCCAGACCCAAATCTAACATAGTTCTCTCTGTCAGCAGAGAAAGAAAAAGAACAGACT
210 GlyIleValGluAsnGluTrpLysArgThrCysSerArgProLysSerAsnIleValLeuLeuSerAlaGluGluLysLysGluGlnThr

811 ATTGAAATAAAGAAGAAGTGGTGGCTAACTGAAACATCTTCCCAACCAAGAATGAAGAAGACATTGAAATTATTCCAATCCAAGAA
240 IleGluIleLysGluGluValValGlyLeuThrGluThrSerSerGlnProLysAsnGluGluAspIleGluIleIleProIleGlnGlu

901 GAGGAAGAAGAAGAACAGACGAACTTCCAGAACCTCCCCAAGATCAGGAATCCTCACCATAGAAAATGACAGCTCTCCTTAAGTG
270 GluGluGluGluThrGluThrAsnPheProGluProGlnAspGlnGluSerSerProIleGluAsnAspSerSerProEnd 297
---CH0---

991 ATTTCTCTGTTTTCTGTTTCCCTTTTTAAACATTAGTGTTTCATAGCTTCCAAGAGACATGCTGACTTTTTCATTCTTGAGGTACTCTGCA
*

1081 CATACGCACCACATCTCTATCTGGCCTTTGGCATGGAGTGACCATAGCTCCTTCTCTCTTACATTGAATGTAGAGAAATGTAGCCATTGTAG

1171 CAGCTTGTTGTCACGCTTCTTCTTTTGAGCAACTTTCCTTACACTGAAGAAAGCAGAATGAGTGCTTCAGAAATGTGATTTCCTACTAA

1261 CCTGTTCCTTGGATAGGCTTTTTTAGTATAGTATTTTTTTTTTGTCATTTTCTCCATCAGCAACCAGGGAGACTGCACCTGATGGAAAAGAT

1351 ATATGACTGCTTCATGACATTCCCTAAACTATCTTTTTTTTATCCACATCTACGTTTTTGGTGGAGTCCCCTTTTATCATCTCTTAAACA

1441 ATGATGCAAAAGGGCTTTAGAGCACAAATGGATCT 1474

FIG. 10A-2

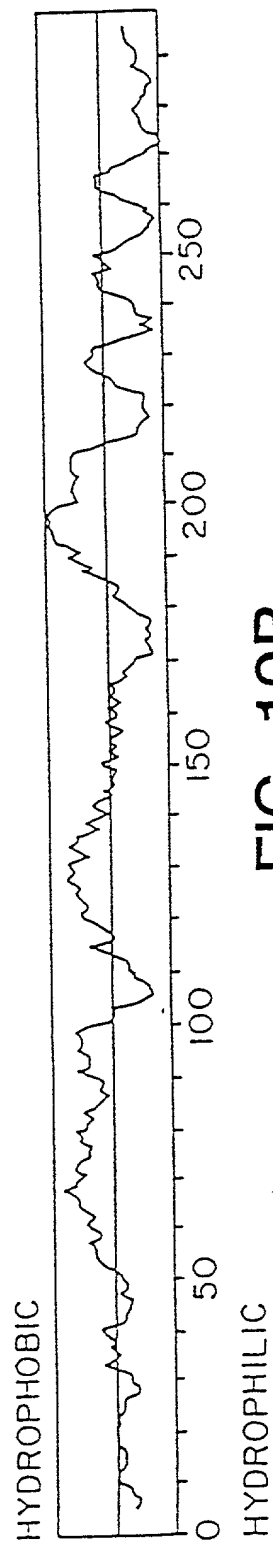


FIG. 10B

1 CTCAGCCTCGCTATGGCTCCCAGCAGCCCCCGCGCTGCCCGCACCTCTGGTCTGCTCGGGGCTCTGTTCCCA
MetAlaProSerSerProArgProAlaLeuProAlaLeuLeuValLeuLeuGlyAlaLeuPhePro
(-25)
GGACCTGGCAATGCCCAGACATCTGTGTCCCCCTCAAAAGTC
GlyProGlyAsnAlaGlnThrSerValSerProSerLysVal
(+11)
121 ATCTGCCCGGGAGGCTCCGTGCTGGTGACATGCAGCACCTCTGTGACCAAGTTGTTGGGCATAGAGACC
IleLeuProArgGlyGlySerValLeuValThrCysSerThrSerCysAspGlnProLysLeuLeuGlyIleGluThr
(+1)
CCGTTGCCCTAAAAAGGAGTTGCTCTCCCTGGGAACAACCGG
ProLeuProLysLysGluLeuLeuProGlyAsnAsnArg
(+51)
241 AAGGTGTATGAACTGAGCAATGTGCAAGAAGATAGCCAACTGTGCTATTCAAACCTGCCCTGATGGGCAGTCAACA
LysValTyrGluLeuSerAsnValGlnGluAspSerGlnProMetCysTyrSerAsnCysProAspGlyGlnSerThr
GCTAAACCTTCTCACCGTGTACTGGACTCCAGAACGGGTG
AlaLysThrPheLeuThrValTyrTrpThrProGluArgVal
(+91)
361 GAACTGGCACCCCTCCCTCTTGGCAGCCAGTGGGCAAGAACCTTACCCTACGCTGCCAGGTGGAGGTGGGGCACCC
GluLeuAlaProLeuProSerTrpGlnProValGlyLysAsnLeuThrLeuArgCysGlnValGluGlyGlyAlaPro
----CH0----
CGGGCAACCTCACCGTGTGTCTCCGTGGGAGAGGAG
ArgAlaAsnLeuThrValValLeuLeuArgGlyGluLysGlu
-----(+131)
481 CTGAAACGGGAGCCAGCTGTGGGGAGCCCCGCTGAGGTACGACCCACGGTGTGTGAGGAGAGATCACCATGGAGCC
LeuLysArgGluProAlaValGlyGluProAlaGluValThrThrValLeuValArgArgAspHisGlyAla
AATTTCTCGTGCCGCACTGAACTGGACCTGCGGCCCCCAAGGG
AsnPheSerCysArgThrGluLeuAspLeuArgProGlnGly
----CH0----(+171)
601 CTGGAGCTGTTTGAGAACACCTCGGCCCCCTACCAGCTCCAGACCTTTGTCTGCCAGCGACTCCCCCACAACCTTGTC
LeuGluLeuPheGluAsnThrSerAlaProTyrGlnLeuGlnThrPheValLeuProAlaThrProProGlnLeuVal
----CH0----
AGCCCCCGGTCCTAGAGGTGGACACGACGGGACCGTGGTC
SerProArgValLeuGluValAspThrGlnGlyThrValVal
(+211)

FIG. 11-1

721 TGTTCCCTGGACGGGCTGTTCCAGTCTCGGAGGCCAGGTCCACCTGGCACTGGGGACAGAGGTTGAACCCACACA
CysSerLeuAspGlyLeuPheProValSerGluAlaGlnValHisLeuAlaLeuGlyAspGlnArgLeuAsnProThr
GTCACCTATGGCAACGACTCCTTCTCGGCCAAGGCCTCAGTC
ValThrTyrGlyAsnAspSerPheSerAlaLysAlaSerVal
---CHO--- (+251)

841 AGTGTGACCGCAGAGGACGAGGGACCCAGCGGCTGACGTGTGCAGTAATACTGGGGAACAGAGCCAGGACACACTG
SerValThrAlaGluAspGluGlyThrGlnArgLeuThrCysAlaValIleLeuGlyAsnGlnSerGlnGluThrLeu
---CHO---
CAGACAGTGACCATCTACAGCTTTCCGGCGCCCAACGTGATT
GlnThrValThrIleTyrSerPheProAlaProAsnValIle
---CHO--- (+291)

961 CTGACGAAGCCAGAGGTCTCAGAAGGGACCGAGGTGACAGTGAAGTGTGAGGCCACCCCTAGAGCCAAGGTGACGCTG
LeuThrLysProGluValSerGluGlyThrGluValThrValLysCysGluAlaHisProArgAlaLysValThrLeu
AATGGGGTTCCAGCCAGCCACTGGGCCCGAGGGCCCGAGCTC
AsnGlyValProAlaGlnProLeuGlyProArgAlaGlnLeu
---CHO--- (+331)

1081 CTGCTGAAGGCCACCCAGAGGACACACGGCGCAGCTTCTCCTCTGCAACCCCTGGAGGTGGCCGCGCAGCTTATA
LeuLeuLysAlaThrProGluAspAsnGlyArgSerPheSerCysSerAlaThrLeuGluValAlaGlyGlnLeuIle
CACAAAGAACCAAGACCCGGGAGCTTCGTGCTCTGTATGGCCCC
HisLysAsnGlnThrArgGluLeuArgValLeuTyrGlyPro
---CHO--- (+371)

1201 CGACTGGACGAGAGGGATTGTCCGGGAACTGGACGTGGCCAGAAATTCACAGCAGACTCCAATGTGCCAGGCTTGG
ArgLeuAspGluArgAspCysProGlyAsnTrpThrTrpProGluAsnSerGlnGlnThrProMetCysGlnAlaTrp
---CHO---
GGGAACCCATTGCCCCGAGCTCAAGTGTCTAAAGGATGGCACT
GlyAsnProLeuProGluLeuLysCysLeuLysAspGlyThr
---CHO--- (+411)

1321 TTCCCACTGCCCATCGGGGAATCAGTGACTGTCACTCGAGATCTTGAGGGCACCTACCTCTGTGGGCCAGGAGCACT
PheProLeuProIleGlyGluSerValThrValThrArgAspLeuGluGlyThrTyrLeuCysArgAlaArgSerThr
CAAGGGGAGGTCACCCCGGAGGTGACCGTGAATGTGCTCTCC
GlnGlyGluValThrArgGluValThrValAsnValLeuSer
---CHO--- (+451)

FIG. 11-2

```

1441 CCCCAGTATGAGATTGTCTATCACTGTGGTAGCAGCCGCGAGTCATAATGGGCACTGCAGGCCCTCAGCACGTACCTC
ProArgTyrGluIleValIleIleThrValValAlaAlaAlaValIleMetGlyThrAlaGlyLeuSerThrTyrLeu
-----TM-----
TATAACCGCCAGCGGAAGATCAAGAAATACAGACTACAAACAG
TyrAsnArgGlnArgLysIleLysLysTyrArgLeuGlnGln
(+491)
1561 GCCCCAAAAGGACCCCCCATGAAACCGAACACACACAGCCCTCCCTGAACCTATCCCGGGACAGGGCCTCTTCCT
AlaGlnLysGlyThrProMetLysProAsnThrGlnAlaThrProPro
(+507)
CGGCCTTCCCATATTGGTGGCAGTGGTGCCACACTGAACAGA

1681 GTGGAAGACATATGCCATGCGAGCTACACCTACCGGCCCTGGGACGCGCGGAGGACAGGGCATTTGTCCTCAGTCAGATAC
1801 GGCCACGCACTCTGATCTGTAGTCACATGACTAAGCCAAAGAGGAAGG
AACAGCATTGGGGCCCATGGTACCTGCACACCTAAACACTA

```

FIG. 11-3

1 ..GGAGAGTC TGACCACCAT GCCACCTCCT CGCCTCCTCT TCTTCCTCCT
51 CTTCTCACC CCCATGGAAG TCAGGCCCCA GGAACCTCTA GTGGTGAAGG
101 TGGAAGAGGG AGATAACGCT GTGCTGCAGT GCCTCAAGGG GACCTCAGAT
151 GGCCCCACTC AGCAGCTGAC CTGGTCTCGG GAGTCCCCGC TTAAACCCTT
201 CTTAAAACTC AGCCTGGGGC TGCCAGGCCT GGAATCCAC ATGAGGCCCC
251 TGGCCATCTG GCTTTTCATC TTCAACGTCT CTCAACAGAT GGGGGGCTTC
301 TACCTGTGCC AGCCGGGGCC CCCCTCTGAG AAGGCCTGGC AGCCTGGCTG
351 GACAGTCAAT GTGGAGGGCA GCGGGGAGCT GTTCCGGTGG AATGTTTCGG
401 ACCTAGGTGG CCTGGGCTGT GGCCTGAAGA ACAGGTCCTC AGAGGGCCCC
451 AGTCCCCCTT CCGGAAGCT CATGAGCCCC AAGCTGTATG TGTGGGCAA
501 AGACCGCCT GAGATCTGGG AGGGAGAGCC TCCGTGTGTC CCACCGAGGG
551 ACAGCTGAA CCAGAGCCTC AGCCAGGACC TCACCATGGC CCCTGGCTCC
601 AACTCTGGC TGTCTGTGG GGTACCCCT GACTCTGTGT CCAGGGCCCC
651 CCTCTCCTGG ACCCATGTGC ACCCAAGGG GCCTAAGTCA TTGCTGAGCC
701 TAGAGCTGAA GGACGATCGC CCGGCCAGAG ATATGTGGT AATGGAGAG
751 GGTCTGTTGT TGCCCCGGGC CACAGCTCAA GACGCTGGAA AGTATTATTG
801 TCACCGTGGC AACCTGACCA TGTATTCCA CCTGGAGATC ACTGCTCGGC
851 CAGTACTATG GCACTGGCTG CTGAGGACTG GTGGCTGGAA GGTCTCAGCT
901 GTGACTTTGG CTTATCTGAT CTTCTGCCTG TGTCCCTTG TGGCATTCT
951 TCATCTTCAA AGAGCCCTGG TCCTGAGGAG GAAAAGAAAG CGAATGACTG
1001 ACCCCACCAG GAGATTCTTC AAAGTGACGC CTCCTCCAGG AAGCGGGCCC
1051 CAGAACCAGT ACGGGAACGT GCTGTCTCTC CCCACACCCA CCTCAGGCCT
1101 CGGACGCGCC CAGCGTTGGG CCGCAGGCCT GGGGGGCACT GCGCGTCTT
1151 ATGGAAACCC GAGCAGCGAC GTCCAGGCGG ATGGAGCCTT GGGGTCCCGG

FIG. 12-1

1201 AGCCGCCGGG AGTGGGCCCA GAAGAAGAGG AAGGGGAGGG CTATGAGGAA
1251 CCTGACAGTG AGGAGGACTC CGAGTTCTAT GAGAACGACT CCAACCTTGG
1301 GCAGGACCAG CTCTCCCAGG ATGGCAGCGG CTACGAGAAC CCTGAGGATG
1351 AGCCCCTGGG TCCTGAGGAT GAAGACTCCT TCTCCAACGC TGAGTCTTAT
1401 GAGAACGAGG ATGAAGAGCT GACCCAGCCG GTCGCCAGGA CAATGGACTT
1451 CCTGAGCCCT CATGGGTCAG CCTGGGACCC CAGCCGGGAA GCAACCTCCC
1501 TGGGGTCCCA GTCCTATGAG GATATGAGAG GAATCCTGTA TGCAGCCCCC
1551 CAGCTCCGCT -CATTTCGGGG CCAGCCTGGA CCCAATCATG AGGAAGATGC
1601 AGACTCTTAT GAGAACATGG ATAATCCCGA TGGGCCAGAC CCAGCCTGGG
1651 GAGGAGGGGG CCGCATGGGC ACCTGGAGCA CCAGGTGATC CTCAGGTGGC
1701 CAGCCTGGAT CTCCTCAAGT CCCCAAGATT CACACCTGAC TCTGAAATCT
1751 GAAGACCTCG AGCAGATGAT GCCAACCTCT GGAGCAATGT TGCTTAGGAT
1801 GTGTGCATGT GTGTAAGTGT GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT
1851 ATACATGCCA GTGACACTTC CAGTCCCCTT TGTATTCCTT AAATAAACTC
1901 AATGAGCTCT TCCAAAAAAA AAAA

FIG. 12-2

1 ACAAAGACAA ACTGCACCCA CTGAACTCCG CAGCTAGCAT CCAAATCAGC
 51 CCTTGAGATT TGAGGCCTTG GAGACTCAGG AGTTTTGAGA GCAAAATGAC
 101 AACACCCAGA AATTCAGTAA ATGGGACTTT CCCGGCAGAG CCAATGAAAG
 151 GCCCTATTGC TATGCAATCT GGTCCAAAAC CACTCTTCAG GAGGATGTCT
 201 TCACTGGTGG GCCCCACGCA AAGCTTCTTC ATGAGGGAAT CTAAGACTTT
 251 GGGGGCTGTC CAGATTATGA ATGGGCTCTT CCACATTGCC CTGGGGGGTC
 301 TTCTGATGAT CCCAGCAGGG ATCTATGCAC CCATCTGTGT GACTGTGTGG
 351 TACCCTCTCT GGGGAGGCAT TATGTATATT ATTTCCGGAT CACTCCTGGC
 401 AGCAACGGAG AAAAATCCA GGAAGTGTTT GGTCAAAGGA AAAATGATAA
 451 TGAATTCATT GAGCCTCTTT GCTGCCATTT CTGGAATGAT TCTTTCAATC
 501 ATGGACATAC TTAATATTAA AATTTCCCAT TTTTAAAAA TGGAGAGTCT
 551 GAATTTTATT AGAGCTCACA CACCATATAT TAACATATAC AACTGTGAAC
 601 CAGCTAATCC CTCTGAGAAA AACTCCCCAT CTACCCAATA CTGTTACAGC
 651 ATACAATCTC TGTCTTGGG CATTTTGTC A GTGATGCTGA TCTTTGCCTT
 701 CTTCCAGGAA CTTGTAATAG CTGGCATCGT TGAGAATGAA TGGAAAAGAA
 751 CGTGCTCCAG ACCCAAATCT AACATAGTTC TCCTGTCAGC ACAAGAAAAA
 801 AAAGAACAGA CTATTGAAAT AAAAGAAGAA GTGGTTGGGC TAACTGAAAC
 851 ATCTTCCCAA CCAAAGAATG AAGAAGACAT TGAAATTATT CCAATCCAAG
 901 AAGAGGAAGA AGAAGAAACA GAGACGAACT TTCCAGAACC TCCCCAAGAT
 951 CAGGAATCCT CACCAATAGA AAATGACAGC TCTCCTTAAG TGATTTCTTC
 1001 TGTTTTCTGT TTCCTTTTTT AAACATTAGT GTTCATAGCT TCCAAGAGAC
 1051 ATGCTGACTT TCATTTCTTG AGGTACTCTG CACATACGCA CCACATCTCT

FIG. 13-1

1101 ATCTGGCCTT TGCATGGAGT GACCATAGCT CCTTCTCTCT TACATTGAAT
1151 GTAGAGAATG TAGCCATTGT AGCAGCTTGT GTTGTCACGC TTCTTCTTTT
1201 GAGCAACTTT CTTACACTGA AGAAAGGCAG AATGAGTGCT TCAGAATGTG
1251 ATTCCTACT AACCTGTTCC TTGGATAGGC TTTTGTAGTAT AGTATTTTTT
1301 TTTGTCATTT TCTCCATCAG CAACCAGGGA GACTGCACCT GATGGAAAAG
1351 ATATATGACT GCTTCATGAC ATTCCTAAAC TATCTTTTTT TTATTCCACA
1401 TCTACGTTTT TGGTGGAGTC CCTTTTATC ATCCTTAAAA CAATGATGCA
1451 AAAGGGCTTT AGAGCACAAT GGATCT

FIG. 13-2

1 CCCAAATGTC TCAGAATGTA TGTCCCAGAA ACCTGTGGCT GCTTCAACCA
 51 TTGACAGTTT TGCTGCTGCT GGCTTCTGCA GACAGTCAAG CTGCAGCTCC
 101 CCCAAAGGCT GTGCTGAAAC TTGAGCCCCC GTGGATCAAC GTGCTCCAGG
 151 AGGACTCTGT GACTCTGACA TGCCAGGGGG CTCGCAGCCC TGAGAGCGAC
 201 TCCATTCACT GGTTCACAA TGGGAATCTC ATCCCACCC ACACGCAGCC
 251 CAGCTACAGG TTCAAGGCCA ACAACAATGA CAGCGGGGAG TACACGTGCC
 301 AGACTGGCCA GACCAGCCTC AGCGACCCTG TGCATCTGAC TGTGCTTTCC
 351 GAATGGCTGG TGCTCCAGAC CCCTCACCTG GAGTTCAGG AGGGAGAAAC
 401 CATCATGCTG AGGTGCCACA GCTGGAAGGA CAAGCCTCTG GTCAAGGTCA
 451 CATTCTTCCA GAATGGAAAA TCCCAGAAAT TCTCCCGTTT GGATCCCACC
 501 TTCTCCATCC CACAAGCAAA CCACAGTCAC AGTGGTGATT ACCACTGCAC
 551 AGGAAACATA GGCTACACGC TGTTCATC CAAGCCTGTG ACCATCACTG
 601 TCCAAGTGCC CAGCATGGGC AGCTCTTCAC CAATGGGGAT CATTGTGGCT
 651 GTGGTCATTG CGACTGCTGT AGCAGCCATT GTTGCTGCTG TAGTGGCCTT
 701 GATCTACTGC AGGAAAAAGC GGATTTCAGC CAATTCCACT GATCCTGTGA
 751 AGGCTGCCCA ATTTGAGCCA CCTGGACGTC AAATGATTGC CATCAGAAAG
 801 AGACAACCTG AAGAAACCAA CAATGACTAT GAAACAGCTG ACGGCGGCTA
 851 CATGACTCTG AACCCCAGGG CACCTACTGA CGATGATAAA AACATCTACC
 901 TGA CTCTTCC TCCCAACGAC CATGTCAACA GTAATACTA AAGAGTAACG
 951 TTATGCCATG TGGTCATACT CTCAGCTTGC TGAGTGGATG AAAAAAGAG
 1001 GGGAAATTGT AAAGGAAAAT TTAAATGGAG ACTGGAAAAA TCCTGAGCAA
 1051 ACAAACCAC CTGGCCCTTA GAAATAGCTT TAACTTTGCT TAACTACAA
 1101 ACACAAGCAA AACTTCACGG GGTCACTA CATACAAGCA TAAGCAAAAC
 1151 TTAACCTGGA TCATTTCTGG TAAATGCTTA TGTTAGAAAT AAGACAACCC
 1201 CAGCCAATCA CAAGCAGCCT ACTAACATAT AATTAGGTGA CTAGGGACTT
 1251 TCTAAGAAGA TACCTACCCC CAAAAACAA TTATGTAATT GAAAACCAAC
 1301 CGATTGCCTT TATTTTGCTT CCACATTTTC CCAATAAATA CTTGCCTGTG
 1351 ACATTTTGCC ACTGGAACAC TAACTTCAT GAATTGCGCC TCAGATTTTT
 1401 CCTTTAACAT CTTTTTTTTT TTTGACAGAG TCTCAATCTG TTACCCAGGC
 1451 TGGAGTGCAG TGGTGCTATC TTGGCTCACT GCAAACCCGC CTCCCAGGT
 1501 TAAGCGATTG TCATGCCTCA GCCTCCAGT AGCTGGGATT AGAGGCATGT
 1551 GCCATCATAC CCAGCTAATT TTTGTATTTT TTATTTTTTT TTTTGTAGTAG
 1601 AGACAGGGTT TCGCAATGTT GGCCAGGCCG ATCTCGAACT TCTGGCCTCT
 1651 AGCGATCTGC CCGCCTCGGC CTCCCAAAGT GCTGGGATGA CCAGCATCAG

FIG. 15-1

1701 CCCCAATGTC CAGCCTCTTT AACATCTTCT TTCCTATGCC CTCTCTGTGG
1751 ATCCCTACTG CTGGTTTCTG CCTTCTCCAT GCTGAGAACA AAATCACCTA
1801 TTCCTGCTT ATGCAGTCGG AAGCTCCAGA AGAACAAAGA GCCCAATTAC
1851 CAGAACCACA TTAAGTCTCC ATTGTTTTGC CTTGGGATTT GAGAAGAGAA
1901 TTAGAGAGGT GAGGATCTGG TATTTCTGG ACTAAATTCC CCTTGGGGAA
1951 GACGAAGGGA TGCTGCAGTT CCAAAAGAGA AGGACTCTTC CAGAGTCATC
2001 TACCTGAGTC CCAAAGCTCC CTGTCCTGAA AGCCACAGAC AATATGGTCC
2051 CAAATGACTG ACTGCACCTT CTGTGCCTCA GCCGTTCTTG ACATCAAGAA
2101 TCTTCTGTTT CACATCCACA CAGCCAATAC AATTAGTCAA ACCACTGTTA
2151 TTAACAGATG TAGCAACATG AGAAACGCTT ATGTTACAGG TTACATGAGA
2201 GCAATCATGT AAGTCTATAT GACTTCAGAA ATGTTAAAAT AGACTAACCT
2251 CTAACAACAA ATTAAGAGTG ATTGTTTCAA GGTGAAAAAA

FIG. 15-2

1 GCTGTGACTG CTGTGCTCTG GGCGCCACTC GCTCCAGGGA GTGATGGGAA
 51 TCCTGTCATT CTTACCTGTC CTTGCCACTG AGAGTGACTG GGCTGACTGc
 101 AAGTCCCCC AGCCTTGGGG TCATATGCTT CTGTGGACAG CTGTGCTATC
 151 CCTGGCTCCT GTTGCTGGGA CACCTGCAGC TCCCCAAAG GCTGTGCTGA
 201 AACTCGAGCC CCAGTGGATC AACGTGCTCC AGGAGGACTC TGTGACTCTG
 251 ACATGCCGGG GGA CTCACAG CCCTGAGAGC GACTCCATTC AGTGGTTCCA
 301 CAATGGGAAT CTCATTCCCA CCCACACGCA GCCCAGCTAC AGGTTC AAGG
 351 CCAACAACAA TGACAGCGGG GAGTACACGT GCCAGACTGG CCAGACCAGC
 401 CTCAGCGACC CTGTGCATCT GACTGTGCTT TCTGGTCAGT GGAGGAAGGC
 451 CCCAGGGTGG ACCTGGGAGG GCCAGGACGG ATGAAATCTG CTTTCAGGCA
 501 GAGGTTTGCA GGAAAGGGGG GTGGCCTGCT TACTGGGAAG TATCGCTGTG
 551 AGTTGCCTCA GCACATATCA GTGGTTGTTT TTGCCTCAGT TCTGATTGAA
 601 CAGAAGAAGG TTTCAAGGCC AAAACAGGC AGCCAAGTGT GAGAGAAGCA
 651 GAAGGAAATC CCTACTGCAT AAAACCCATT TCCATTTTAA TGGCAGAATT
 701 GAAAAGCACA GACCACAACT GAATCCTAGC CCTGGAAATG ACTCACTATA
 751 CAACATGATG AATTCATTTA ACCCTTGAGT TTCCATTCTC TCACCTGCTC
 801 CGTGGGGCAG TAACGCCTCC CTCAGAGGCT TCTGGTGAGA ATCAGTGTTT
 851 CCCTGCCCCC GCCCCGCCCT CCATGCCCCCT TCTCCACGTT CTCAGTGTGC
 901 TAGGTGCTCT TCTCTGTCTT TCTCTTCCAC CAGCCTGTGG GAAACCTGAG
 951 ATGAAAGTCG TGTCTTACCC ATCTTTGTAT TTCCAGCATC TGAAACTGGG
 1001 CAGAGCTTAA TAAATATTTT GCTGGAGAGG TTGATGATCT TACAAAGCTC
 1051 CCATTGAAAG GTGGCTCTCT GTAAAGCAAA GTTACAATGA GATTGTGATG
 1101 AACATTGTCC TTGTGGCTTT TCACTTAGTC CCCTCCCTTC ACCTGAAGAG
 1151 CAAATTTTCC TCAAAAGTAC ACAGCAAACG AATGACCCAC TGGTGACACT
 1201 GTTGCCCTTA GACCCTGCTG GAAAGAAGCT CCACATTTAT TAACATTCCC
 1251 GAAGTAAATT TATCAGGTAG CATTATCAG GTAACATTG TTGCACATTC
 1301 ATGACTTTTC TACTGTCCAC AAAGGCATAT GTCCTTATCA TATGCGGACT
 1351 CCTCGGTCAC ACTGGATTCT TCCTTCCCTC CTCGACATGG AAGAGATGGC
 1401 ATCTTAGGGT CTCTTGTTT CTTCTGTCAG AGGCCTGTG GGCAGGAAAA
 1451 GGCTGCAGCT GCCTTCCTGG GAGAAGGAGG AGATGAGTGT ATCCTGAACA
 1501 CCTATTATGT GCTAGGGGCT ATTGTAGATA CATGACACTA TCATGCTCAT
 1551 TTTACGAAT GAGGAACTG AGGCTCAGAA GACTTAAATT ATTTGCCCAA
 1601 GAGTTATAAA TGACAGAGCC AGCATTAGAG TCCAGGACTG TCTGATTTCA
 1651 GACCTAAGCT GTTCCCTCTG CACATCGTGT CCCACCAGTA AGGAAGATCT

FIG. 16-1

1701 GGGTCTCAGA GCTGAGCCAA GACCTCCCGG GTCCTCTGCG GTTTTTTGTG
1751 TCTTTCAGAG TGGCTGGTGC TCCAGACCCC TCACCTGGAG TTCCAGGAGG
1801 GAGAAACCAT CGTGCTGAGG TGCCACAGCT GGAAGGACAA GCCTCTGGTC
1851 AAGGTCACAT TCTTCCAGAA TGGAAAATCC AAGAAATTTT CCCGTTCCGA
1901 TCCCAACTTC TCCATCCCAC AAGCAAACCA CAGTCACAGT GGTGATTACC
1951 ACTGCACAGG AAACATAGGC TACACGCTGT ACTCATCCAA GCCTGTGACC
2001 ATCACTGTCC AAGCTCCCAG CTCTTCACCG ATGGGGATCA TTGTGGCTGT
2051 GGTCAGTGGG ATTGCTGTAG CGGCCATTGT TGCTGCTGTA GTGGCCTTGA
2101 TCTACTGCAG GAAAAAGCGG ATTCAGGTT TGTAGCTCCT CCCGGTCCCT
2151 TTGTTATCA GTTCCACTT T

FIG. 16-2

1 GCCTCGCTCG GCGGCCAGT GGTCTGCCG CCTGGTCTCA CCTCGCCATG
 51 GTTCGTCTGC CTCTGCAGTG CGTCCTCTGG GGCTGCTTGC TGACCGCTGT
 101 CCATCCAGAA CCACCCACTG CATGCAGAGA AAAACAGTAC CTAATAAACA
 151 GTCAGTGCTG TTCTTGTGTC CAGCCAGGAC AGAACTGGT GAGTGACTGC
 201 ACAGAGTTCA CTGAAACGGA ATGCCTTCCT TGCGGTGAAA GCGAATTCCT
 251 AGACACCTGG AACAGAGAGA CACACTGCCA CCAGCACAAA TACTGCGACC
 301 CCAACCTAGG GCTTCGGGTC CAGCAGAAGG GCACCTCAGA AACAGACACC
 351 ATCTGCACCT GTGAAGAAGG CTGGCACTGT ACGAGTGAGG CCTGTGAGAG
 401 CTGTGTCCTG CACCGCTCAT GCTCGCCCGG CTTTGGGGTC AAGCAGATTG
 451 CTACAGGGGT TTCTGATACC ATCTGCGAGC CCTGCCCAGT CGGCTTCTTC
 501 TCCAATGTGT CATCTGCTTT CGAAAAATGT CACCCTTGGA CAAGCTGTGA
 551 GACCAAAGAC CTGGTTGTGC AACAGGCAGGC ACAAACAAGA CTGATGTTGT
 601 CTGTGGTCCC CAGGATCGGC TGAGAGCCCT GGTGGTGATC CCCATCATCT
 651 TCGGGATCCT GTTTGCCATC CTCTTGGTGC TGGTCTTTAT CAAAAAGGTG
 701 GCCAAGAAGC CAACCAATAA GGCCCCCAC CCCAAGCAGG AACCCAGGA
 751 GATCAATTTT CCCGACGATC TTCCTGGCTC CAACACTGCT GCTCCAGTGC
 801 AGGAGACTTT ACATGGATGC CAACCGGTCA CCCAGGAGGA TGGCAAAGAG
 851 AGTCGCATCT CAGTGCAGGA GAGACAGTGA GGCTGCACCC ACCCAGGAGT
 901 GTGGCCACGT GGGCAAACAG GCAGTTGGCC AGAGAGCCTG GTGCTGCTGC
 951 TGCAGGGGTG CAGGCAGAAG CGGGGAGCTA TGCCCAGTCA GTGCCAGCCC
 CTC

FIG. 17